

Name \_\_\_\_\_

Date

3/10/09

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## Chapter 2: Forces Test

Choose the letter which best fits the statement and write the letter on the line provided (4 pts each)

- d 1. Which of the following is an example of zero net force applied to an object?
- ☐ a. a skier moving down a mountain with increasing speed
  - ☐ b. a car turning left without changing speed
  - ☐ c. a ball being hit into the outfield with a bat
  - ☒ d. a rope pulled equally from opposite ends

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- d 2. A skater is moving at a constant speed. How can he increase his speed?
- ☐ a. drag the heel stop to increase friction
  - ☐ b. lean to one side, causing the skates to turn
  - ☐ c. reduce the force with which he pushes his feet against the ground
  - ☒ d. increase the force with which he pushes his feet against the ground

- a 3. If one force is balanced by another force, the
- ☒ a. effect is the same as no force at all
  - ☐ b. effect is a positive net force
  - ☐ c. size of the first force is balanced by the direction of the second force
  - ☐ d. direction of the first force is balanced by the size of the second force

a 4. Newton's first law describes the tendency of objects to resist a change in motion. This resistance is also called

- ☒ a. inertia
- ☐ b. net force
- ☐ c. friction
- ☐ d. gravity

c 5. One way to decrease acceleration is to

- ☐ a. decrease force and mass equally
- ☐ b. increase force more than mass
- ☒ c. increase mass
- ☐ d. decrease mass

b 6. John **pulls** a box with a force of 4 N, and Jason **pulls** the box with a force of 3N. Ignore friction. Which of the following statements is true?

- ☐ a. The box moves toward Jason.
- ☒ b. The box moves toward John
- ☐ c. The box does not move.
- ☐ d. There is not enough information to determine if the box moves or not.